

COMPUTER SCIENCE 20, SPRING 2012  
DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

Class #20 (Coloring)

**Homework, due in hard copy Wednesday 3/28/2012 at 10:10am**

**Please write your TF's name on your homework, and list the names of any students with whom you collaborated.**

1. Given an  $8 \times 8$  chessboard, with two diagonally opposite corners removed, can one tile the board using  $2 \times 1$  rectangles? What about a  $2n \times 2n$  chessboard?
2. Determine, with justification, the chromatic numbers for the graphs below:

